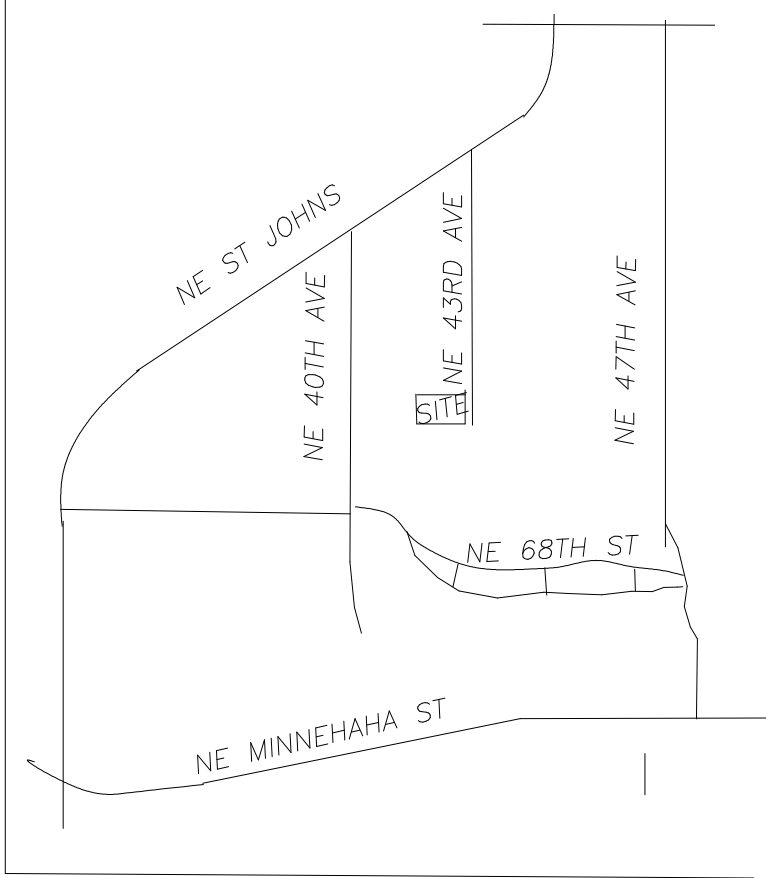


COLD CREEK NORTH GRADING

SITE ADDRESS — 7002 NE 43RD AVE VANCOUVER WA 98661
PARCLE NO. 149165000

APPLICANT, OWNER AND CONTACT:
GENTEEL INVESTMENTS LLC
ATTN: ROY HEKKALA
P.O. BOX 1434
VANCOUVER WA 98668
360-921-8244

DESIGN CONSULTANT
HARKER ENGINEERING INC.
10000 NE 7TH AVE SUITE 400
VANCOUVER WA 98685
360-699-2206

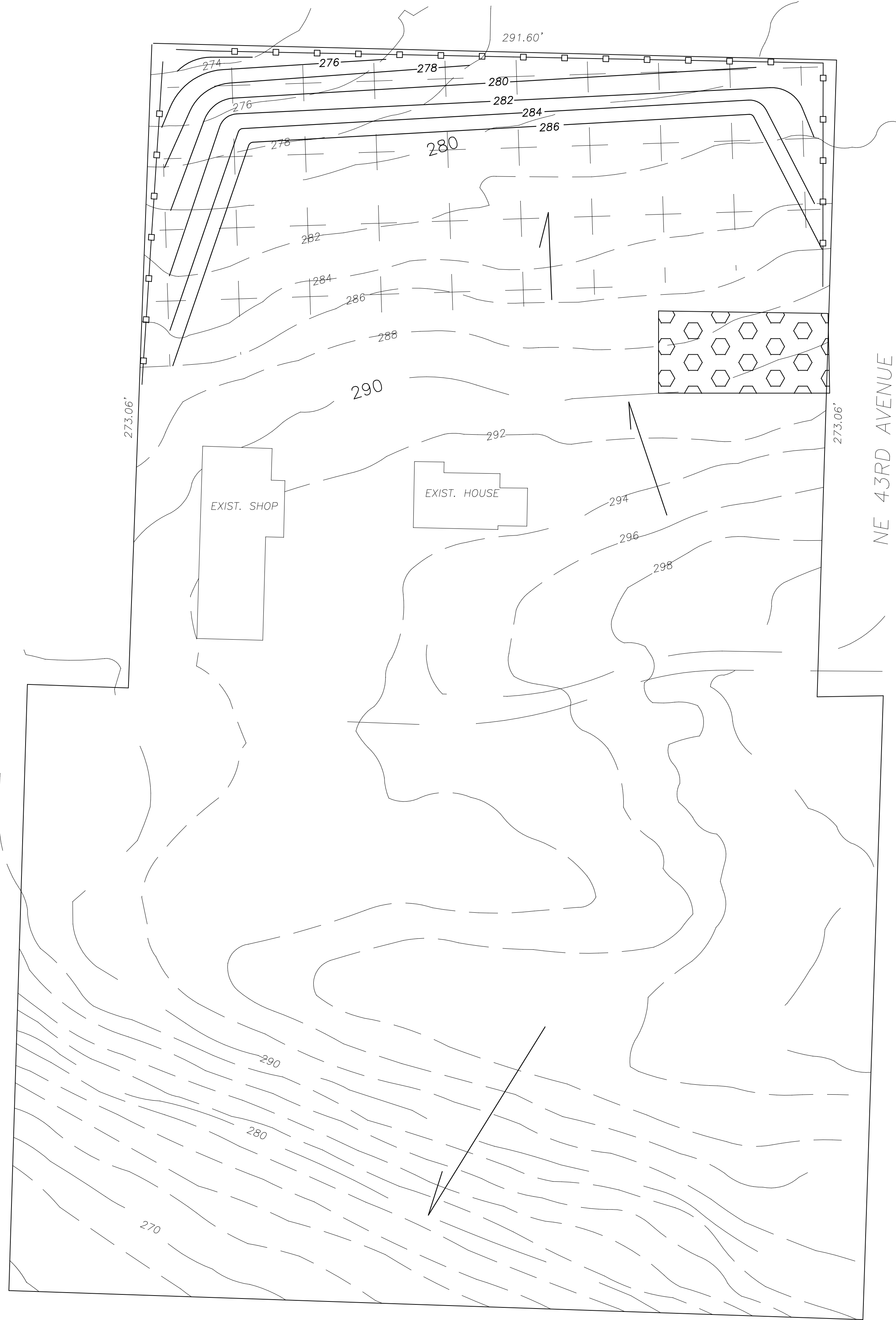
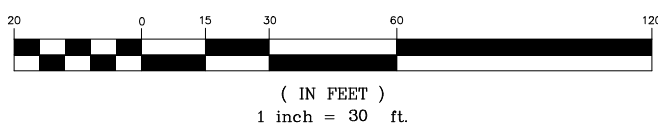


VICINITY
NO SCALE

SHEET INDEX

SHEET	DESCRIPTION
1	COVER SHEET AND GRADING AND EROSION
2	EROSION CONTROL DETAILS

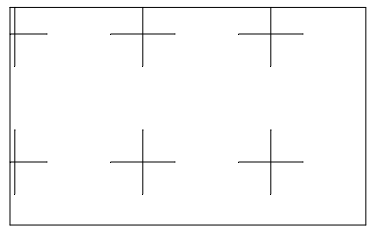
GRAPHIC SCALE



POTENTIAL ISSUES (IMPACT ON NEIGHBORS DRAINAGE) — NONE

ESTIMATED QUANTITY OF FILL = 4,500 CUBIC YARDS

IN THE EVENT THAT ARCHAEOLOGICAL OR HISTORIC MATERIALS (E.G.BONES, SHELL, STONE TOOLS, BEADS, CERAMICS, OLD BOTTLES, HEARTHES, ETC.) ARE OBSERVED DURING PROJECT ACTIVITIES, ALL WORK IN THE IMMEDIATE VICINITY SHOULD STOP AND THE STATE DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION (360-586-3065), THE COUNTY PLANNING OFFICE AND AFFECTED TRIBE(S) SHOULD BE CONTACTED IMMEDIATELY. IF ANY HUMAN REMAINS ARE OBSERVED, ALL WORK SHOULD CEASE AND THE IMMEDIATE AREA SECURED. LOCAL LAW ENFORCEMENT, THE COUNTY MEDICAL EXAMINER (360-397-8405), STATE PHYSICAL ANTHROPOLOGIST, DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION (360-586-3534), THE COUNTY PLANNING OFFICE AND THE AFFECTED TRIBE(S) SHOULD BE CONTACTED IMMEDIATELY. COMPLIANCE WITH ALL APPLICABLE LAWS PERTAINING TO ARCHAEOLOGICAL RESOURCES (RCW 27.53, 27.44 AND WAC 25-48) AND HUMAN REMAINS (RCW 68.50) IS REQUIRED. FAILURE TO COMPLY WITH THESE REQUIREMENTS COULD CONSTITUTE A CLASS C FELONY.



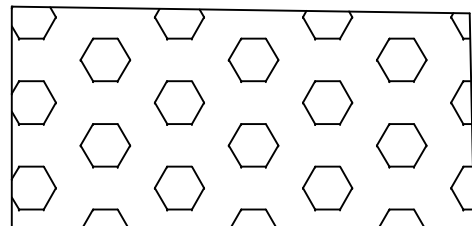
FILL AREA

DRAINAGE PATTERN

XXX --- EXISITNG GRADE

XXX --- PROPOSED GRADE

SEDIMENT FENCE
STD DETAIL E4



GRAVEL CONSTRUCTION ENTRANCE
STD DETAIL E1



DESIGN PROFESSIONAL SHALL COMPLETE ALL LINES:

PROJECT QUANTITIES

N/A = NOT APPLICABLE ✓ = APPLICABLE

GRADING:

Onsite Excavation (Cut) Volume (Cubic Yards) 0
Fill From Off-Site Source (Cubic Yards) 4,500

CONSTRUCTION INSPECTION DISTURBED AREA:

Disturbed Area (Acres) 0.75

UIC - CLASS V INJECTION WELLS:

Site Number: _____
Site Name: _____
Site Address: _____
EPA Well Type: _____
Well Count: _____

PUBLIC IMPROVEMENTS	PRIVATE IMPROVEMENTS
<input type="checkbox"/> Transportation (Arterial & Collector) Sidewalk/Curb Lineal Feet _____ Street Lineal Feet _____	<input type="checkbox"/> Transportation Sidewalk/Curb Lineal Feet _____ Street Lineal Feet _____
<input type="checkbox"/> Transportation (Other) Sidewalk/Curb Lineal Feet _____ Street Lineal Feet _____	
<input type="checkbox"/> Stormwater Facility Type _____	<input type="checkbox"/> Stormwater Facility Type _____

ALL DISTURBED PERVIOUS AREAS SHALL BE
RESTORED PER BMP T5.13

AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY HARD SURFACES,
USED FOR A DRAINAGE FACILITY, OR WHERE SOILS HAVE BEEN ENGINEERING AS STRUCTURAL FILL
OF SLOPE, SHALL DEMONSTRATE THE FOLLOWING AFTER COMPLETION OF THE PROJECT:

1. A TOPSOIL LAYER WITH:
 - A. A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATERIAL CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS
 - B. 5% ORGANIC MATTER CONTENT IN TURF AREAS
 - C. A p-H FROM 6.0 TO 8.0 OR MATCHING THE p-H OF THE UNDISTURBED SOIL
 - D. A MINIMUM TOPSOIL LAYER DEPTH OF 8 INCHES EXCEPT WHERE TREE ROOTS DO NOT ALLOW THIS
2. SUBSOIL BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
3. MULCH BEDS WITH 2 INCHES OF ORGANIC MATERIAL
4. COMPOST AND OTHER MATERIALS SHALL MEET THE FOLLOWING REQUIREMENTS FOR ORGANIC CONTENT:
 - A. THE ORGANIC CONTENT FOR PRE-APPROVED (BY ECOLOGY) AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7-30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65% AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATION MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PORTLAND/VANCOUVER REGION.
 - B. CALCULATED AMENDMENT RATES MAY BE MET THROUGH US OF A COMPOST MATERIAL MEETING (A) ABOVE; OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 22-B, TESTING PARAMETERS, IN WAC 173-350-220
5. THE RESULTING SOIL SHOULD BE CONDUIVE TO THE TYPE OF GEETATION TO BE ESTABLISHED.

STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT OVER DISTURBED AREAS PRIOR TO PLANTING.
STOCKPILED TOPSOILS MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER AND DEPTH REQUIREMENTS EITHER AT A DEFAIT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATE RATE.

EROSION CONTROL
INSPECTION REQUIRED

CONTACT INSPECTION SERVICES
BEFORE YOU BEGIN ANY SITEWORK



ENGINEERING CASE GRD-2022-00015

HABITAT CASE _____

PLANNING LAND USE CASE _____

WETLAND CASE _____

Signature	Clark County Fire Marshal	Date
Signature	Clark County Environmental Services	Date
Signature	Clark County Transportation-Concurrence	Date
Signature	Clark County Transportation-Signal	Date
Signature	Clark County Transportation-Signing and Striping	Date
Signature	Clark County Land Use Review	Date
Signature	Clark County Bldg Safety Division	Date
Signature	Clark County Development Engineering	Date

A	N/A	
<input type="checkbox"/>	<input type="checkbox"/>	Stormwater & Erosion Control CCC 40.380
<input type="checkbox"/>	<input type="checkbox"/>	Stormwater & Erosion Control CCC 40.385
<input type="checkbox"/>	<input type="checkbox"/>	Stormwater & Erosion Control CCC 40.386
<input type="checkbox"/>	<input type="checkbox"/>	Transportation & Circulation CCC 40.350
<input type="checkbox"/>	<input type="checkbox"/>	Within Right-of-Way Landscaping Review
<input type="checkbox"/>	<input type="checkbox"/>	Utility Permits CCC 13.12A & 12.20A
<input type="checkbox"/>	<input type="checkbox"/>	Clark County Signing & Striping
<input type="checkbox"/>	<input type="checkbox"/>	Clark County Traffic Signals
<input type="checkbox"/>	<input type="checkbox"/>	Road Modifications CCC 40.550.010
<input type="checkbox"/>	<input type="checkbox"/>	Critical Aquifer Recharge Areas CCC 40.410
<input type="checkbox"/>	<input type="checkbox"/>	Geologic Hazard Areas CCC 40.430
<input type="checkbox"/>	<input type="checkbox"/>	Flood Hazard Areas CCC 40.420
<input type="checkbox"/>	<input type="checkbox"/>	Sewer and Water Plans
<input type="checkbox"/>	<input type="checkbox"/>	Clark County M & O Pavement Deflection Testing
<input type="checkbox"/>	<input type="checkbox"/>	Private Stormwater Covenant
<input type="checkbox"/>	<input type="checkbox"/>	Grading, Excavation, Fill and Stockpile CCC 14.07
<input type="checkbox"/>	<input type="checkbox"/>	SWPPP (Stormwater Pollution Prevention Plan)

RECOMMENDED for APPROVAL

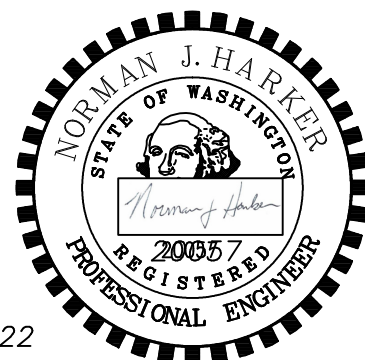
Engineering Team Leader _____ Date _____

APPROVED for CONSTRUCTION

Clark County Engineer _____ Date _____

Please Approved for Construction for the County does not in any way relieve the applicant of responsibility to meet all requirements of the County or
obligation to protect life, health and property. Please have been reviewed and approved for compliance with Clark County Code and adopted regulations.
Plans shall be revised or supplemented at any time it is determined that the full requirements of the County have not been met.

Rev: 05/2017



02/11/2022

HARKER ENGINEERING

10000 NE 7TH AVE SUITE 400
VANCOUVER WA 98685
360-699-2206

GRADING AND
EROSION CONTROL PLAN

COLD CREEK NORTH GRADING

Date FEB 2022

Scale 1"= 30'

Drawn NJH

Job 22-908

Sheet 1

Of 2 Sheets